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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,738	09/26/2007	Lars Arknaes-Pedersen	GRP-0158	2361
23413 7590 09/04/2008 CANTOR COLBURN, LLP 20 Church Street			EXAMINER	
			NGUYEN, KHANH V	
22nd Floor Hartford, CT (06103		ART UNIT	PAPER NUMBER
, -			2817	
			MAIL DATE	DELIVERY MODE
			09/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/575,738 ARKNAES-PEDERSEN ET AL Office Action Summary Examiner Art Unit Khanh V. Nguyen 2817 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 16-28 and 31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1.17-21.24-27 and 31 is/are rejected. 7) Claim(s) 22,23 and 28 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 26 September 2007 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/US)

Paper No(s)/Mail Date 4/10/06

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 17, 21, 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Akamine et al. (JP 2004201187).

Akamine et al. (Fig. 1) disclose amplifier circuit comprising: a variable gain amplifier (104) can be read as at least one non-linearity and a variable amplifier (105) connect in a feedback path, since variable amplifier (105) is an amplifier, thus it is inherently seen having electrical signal, wherein signal (109) can be read as a reference signal, which is self oscillating.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-20, 25-27, 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akamine et al. in view of Tripathi et al. (5.974,089).

Regarding claims 18, 25, Akamine et al. disclose the claimed invention except having quantization means as claimed.

Tripathi et al. (Fig. 1) disclose amplifier circuit comprising: a quantizer (104).

Accordingly, it would have been obvious in view of the reference, taken as a whole, to have modified the circuit of Akamine et al. to have included a quantizer, as taught by Tripathi et al. Such a modification would have imparted the advantageous benefit of producing quantize signal, see column 1, lines 30-55, column 5, lines 39-48, as taught by Tripathi et al. reference, thereby suggesting the obviousness of such a modification.

Regarding claims 19, 26, Tripathi et al. (Fig. 1) also disclose a D/A in a feedback path.

Regarding claims 20, 27, 31, wherein Akamine et al. also disclose a filter (103/106).

Allowable Subject Matter

Claims 22, 23, 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 22, 23, 28 call for, among others, the non-linearity is a limiter/comparator/ADC.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional reference Van Den Homberg et al. (6,140,875) shows further analogous prior art circuitry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is 571-272-1767. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Khanh Van Nguyen/
Primary Examiner, Art Unit 2817

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